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(FILE 'HOME' ENTERED AT 09:46:12 ON 17 DEC 2008)

FILE 'REGISTRY' ENTERED AT 09:46:25 ON 17 DEC 2008

L1 STRUCTURE UPLOADED

L2 3 S L1

L3 119 S L1 FULL

FILE 'CAPLUS' ENTERED AT 09:47:13 ON 17 DEC 2008

L4 74 S L3

=> d que l4 stat

L1 STR



G1 Me, Et, n-Pr, i-Pr, n-Bu, i-Bu, s-Bu, t-Bu

Structure attributes must be viewed using STN Express query preparation.

L3 119 SEA FILE=REGISTRY SSS FUL L1

L4 74 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> d l-74 bib abs hitstr

LA ANWER 1 OF 74 CAPLUS OMPRIEST 2008 ACS ON STN
AW 2008-1167834 CAPLUS

IN 149 66259

TI Recordable medium for recording and reproducing optical information by

irradiating short wavelength laser

IN Sudaizu, Takuro; Matsuda, Taisi; Ohtsu, Takeshi; Hara, Hiromi

LA Tokyo Teiken Co., Ltd., Japan

50 Fanning Zhuanli Shengping Gongshi Shengpingshi, 20pp

JP Patent

LA Chinese

PAN INT 1

PATENT NO.	ICND	DATE	APPLICATION NO.	DATE
FI	IN 16121196	A	20060602	IN 2006-060096
	JP 200602671	A	2006-0600	JP 2006-07142
	IN 200606064	A	2006-1121	IN 2006-06064
FRAL	US 200606064	A	20060602	US 2006-01627
	JP 2007-71250	A	20060609	
	JP 2006-27142	A	20060609	

AB The title recordable medium for recording and reproducing optical information by irradiating short wavelength laser has short or similar grating grooves formed on a substrate, and an optical recording layer mainly composed of organic pigment material. Information can be recorded by irradiating short wavelength laser from the optical recording layer side, and the above information can be reproduced by reading variation of reflected light of short wavelength laser. The recording polarity type is low-to-high (L2H). A refractive index n of the optical recording layer without information recorded thereon is in the range of 1.2-2.1, an attenuation coefficient k is in the range of 0.05-0.1, and (n/k) is in the range of 1.4-2.1.

IT 001109-04

RE TEM (Technical or engineered material use); USES (Uses)

(Recordable medium for recording and reproducing optical information containing)

IN 159109-04 CAPLUS

ON INDEX NAME NOT YET ASSIGNED

CM 1

CEN 61676-70-0

OMP C20 867 80

CM 1

CEN 61676-70-0

OMP C20 867 80

CM 1

CEN 61676-70-0

OMP C20 867 80

CM 1

CEN 61676-70-0

OMP C20 867 80

CM 1

CEN 61676-70-0

OMP C20 867 80

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OMP C20 867 80

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CEN 61676-70-0

OMP C20 867 80

CM 1

CEN 61676-70-0

OMP C20 867 80

LA ANWER 1 OF 74 CAPLUS OMPRIEST 2008 ACS ON STN (Continued)



LA ANWER 2 OF 74 CAPLUS OMPRIEST 2008 ACS ON STN (Continued)



CM 2

CEN 14797-70-0

OMP C1 94



IN 146529-21-1 CAPLUS

ON INDEX NAME NOT YET ASSIGNED

CM 1

CEN 151075-00-8

OMP C21 851 82



CM 2

IN 155340-09-3

OMP C10 86 62 22

IN 146529-21-1 CAPLUS

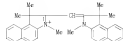
ON INDEX NAME NOT YET ASSIGNED

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CEN 151075-00-8

OMP C21 851 82

[4] ANSWER 2 OF 74 CAPJUS COPYRIGHT 2008 ACS on STN (Continued)



CM 2

ORV 22713-47-9
CMF C10 H6 06 S2



RE CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

LA ANSWER 3 OF 74 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2008 318858 CAPLUS
IN 148-306532
TI Optical disks having visible image-recording layer
IN Shibata, Michiharu; Mikami, Tatsuo; Mikoshita, Hisao
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, Topp.
00000: JICLAF

INT Patent
 LA Japanese
 PAN. CNT 1
 PATENT

PATENT NO	KIND	DATE	APPLICATION NO	DATE
JP 2008069701	A	20080813	JP 2008-236773	20080831
PRAI JP 2008-236773		20080831		

AB The title optical disk has a laser beam-sensitive visible image-recording layer, wherein the image recording layer has 28% reflection index and satisfies the equation: $30 \leq \frac{R}{L} \leq 70$ for colorimetric coordinates as a blank layer. The disk provides high contrast visible images on the back.

IT	100996-41-0	HL-THM (Technical or engineered material use); IERS (Open) (dye in visible image-forming layer on optical disks)
IN	100996-41-0	CAPLUS
CN	3H-Indolium, 2-[[1,3-bis(hydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)	

Q1

CRN 61575-70-0
CWP C23, R22, NO



2

CRN 14797-73-0
CDE C1 06



L4 ANSWER 4 OF 74 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006-31867 CAPLUS
DN 148-366631
TI Optical disks having visible image-recording layer
IN Shibata, Michihiro, Mikami, Tatsuo, Mikoshita, Hisao
PA Fuji Photo Film Co., Ltd., Japan
SO Jpn. Kokai Tokkoku Koho, 2006-

DT Patent
LA Japan
RAN CNT 1

PATENT NO	KIND	DATE	APPLICATION NO	DATE
PT JP 2006059700	A	20060315	TP 2006-256767	20060315

AB The title optical disk has a laser beam-sensitive visible image-recording layer, wherein the image recording layer has 28% reflection index and satisfies the equation: $300 \leq \lambda \leq 700$ for colorimetric coordinates as a blank layer. The disk provides high contrast visible images on the back.

IT 100998-41-0
EL: TEM (Technical or engineered material use); USHS (Usual)

RW 103098-43-0 CASUS
 CN 3H-Indolium, 2-[[1,3-dihydro-1,3,8-trimethyl-2H-indol-2-ylidene)methyl]-
 1,3,8-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CM 1

CSN 61576-70-0
CME C23 NOT NO



CM 2

CRN 14797-TS-0
CMF C1 04

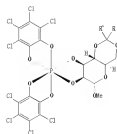


E4 ANSWER 5 OF 74 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006/209372 (NPLUS)
IN 148:508507
TI Sugar derived hexacoordinated phosphates: chiral anionic auxiliaries with
general asymmetric efficiency
AU Perollier, Celine, Bernardinelli, Gerald; Lacour, Jerome
CS Department of Organic Chemistry, University of Geneva, Geneva, CH-1211/4

Swiss.
S0 Chirality (2006), 20(3/4), 313-324
CODEN: CHIRLEP; ISSN: 0099-9042
S2 Wiley-Interscience, Inc.

FD	Wiley-Liss, Inc.
DT	Journal
LA	English
CI	



1

AB. Monosaccharide hexaacetate coordinated rhombate anions (R^+ , R^+ Ph, H, H, R^+ = Me), prepared in as few as two steps from Me- α -D-glucopyranoside and tris(trimethylammonio)phosphine, are chiral anionic auxiliaries with broad anion efficiency. These chemical robust anions are effective NMR solvents for studying the conformational behavior of individual cations in the configuration of conformationally labile C-2'-methylmercaptan cation (organic, helical, charge 14, P or N chelators) and (R)-Si-Fe(II) tris(trimethylammonio) complexes (metal-organic, octahedral, charge 28, R^+ = trimethylammonio). The auxiliary anions are used in a range of unmatched selective levels as achieved with the help of monosaccharide backbone of the anions and the substituents on the 1,3,5-triazine ring that play a key role in the recognition process, something not obvious at first sight.

night-
as one-

RE: RCT (Reactant), RCT (Reactant or reagent)
(for preparation of mannose derived hexacoordinated phosphates as chiral
anionic auxiliaries with general asym. efficiency)

CN 3H-Indolium, 2-

1,3,5-trimethyl-

QIN 61575-20-0

LA NUMBER 5 OF 74 CAPLUS OMPRIEST 2009 ACS ON STN (Continued)

OMP C23 EST NO



CM 2

CN 14814-70-6
OMP 8 74
OCL C23



IT 1001100-65-2
RE SYN Overlaid preparation; PREP (Preparation)
(preparation of nucleoside derived hexacoordinated phosphates as chiral anionic
complexes with general sym. efficiency)

RN 1001100-65-2 CAPLUS
CN 1001100-65-2 (1,3,5-trihydro-1,3,5-trimethyl-2H-imidazo-
pyridine[methyl]-1,3,5-trimethyl-, stereoisomer, (6C-6-31-A)-[methyl]
4,6-(3-methylphenyl)diazenyl-4-methyl-2-oxo-6-(oxo-
4-methyl-4,6,6-tetrachloro-1,2-benzodioxol-2-yl)-
4-methylphosphate(3-)- (1-1) (CA INDEX NAME)

CM 1

CN 1001100-65-2
OMP C23 EST NO



LA NUMBER 6 OF 74 CAPLUS OMPRIEST 2009 ACS ON STN

OMP 2007-190698 CAPLUS

CM 148-4248

IT Optical disk, information recording method, and information reproducing
method

RN Iizawa, Kazuo; Morita, Seiji; Takazawa, Seiji; Ando, Hiroo; Otera,

Tsuyuki; Nakamura, Nobuo; Morimoto, Nishi

Saburaku Kaisha Tomihata, Japan

Sup. Pat. Appl., Group

OMP 2007-190698

IT Patent

LA (Japan)

FNX

TABLET NO.

PI

EP 1845006

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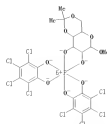
EP 1845006

EP 1845006

LA NUMBER 5 OF 74 CAPLUS OMPRIEST 2009 ACS ON STN (Continued)

CM 2

CN 1000225-65-0
OMP C23 816 C28 010 P
OCL C23



RE CNT 91 THERE ARE 91 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE PERIOD

LA NUMBER 6 OF 74 CAPLUS OMPRIEST 2009 ACS ON STN (Continued)

OMP 2007-190698 CAPLUS

CM 148-4248

IT Optical disk, information recording method, and information reproducing
method

RN Iizawa, Kazuo; Morita, Seiji; Takazawa, Seiji; Ando, Hiroo; Otera,

Tsuyuki; Nakamura, Nobuo; Morimoto, Nishi

Saburaku Kaisha Tomihata, Japan

Sup. Pat. Appl., Group

OMP 2007-190698

IT Patent

LA (Japan)

FNX

TABLET NO.

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EP 1845006

LA NUMBER 12 OF 14 CAPULE COPYRIGHT 2006 ACS ON STM
AN 2006-071084 CAPULE
IN 14E-018405

TI Use showing good optical modulation and improved storage stability,
optical recording material, and optical recording medium

IN Shimizu, Masahito; Tatebe, Tetsuo; Tsuchiya, Masahiro

PA Dai Corporation, Japan

SO Jpn. Kokai Tokkyo Koho, 17pp.

CO JPN. TOKYO

JP Patent

LA Japanese

PAN INT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006062211	A	20060815	JP 2006-201696	20060801
JP 2006-201696	A	20060921		

AB The invention relates to an optical recording (multihalocyanine) dye capable of recording using a recording wavelength 405 nm (400-440 nm), wherein the dye has a first refractive index peak at 200-1.0 nm and a second refractive index peak at 450-700 nm.

IT 200604-04-5

RE TM (technical or engineering material use), USES (uses)
Use showing good optical modulation and improved storage stability,
optical recording material, and optical recording medium

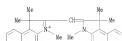
IN 200604-04-5 CAPULE

ON 2H-2-methyl-2-[(1,3-dihydro-1,3,2-trimethyl-2H-indol-2-ylidene)methyl]-1,3,2-trimethyl-1,3-dihydro-2H-indol-2-ylidene (I) (CA INDEX NAME)

CH 1

CN 161002-00-9

CP C01 B01 NC



CH 2

CN 161002-00-9

CP C01 B01 NC

CC C01 B01 NC



LA NUMBER 13 OF 14 CAPULE COPYRIGHT 2006 ACS ON STM
AN 2006-042061 CAPULE
IN 14E-018405

TI Optical recording medium

IN Masahito, Yoshiaki; Ota, Hiroshi

PA Hitachi Kasei, Ltd., Japan

SO U.S. Pat. Appl. Publ., 11pp.

CO JPN. TOKYO

JP Patent

LA Japanese

PAN INT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006019068	A1	20060524	US 2006-057140	20060221
US 2006019068	A	20060907	JP 2006-046283	20060224
US 2006019068	A	20060909	CN 2006-1000006	20060225

AB An optical recording medium including two recording layers, each containing an organic dye includes a first disk substrate formed by laminating a first recording layer and a translucent intermediate layer sequentially on a first transparent substrate made of polycarbonate or the like; and a second disk substrate formed by laminating a reflective layer, a second recording layer, and an interface layer sequentially on a second substrate.

The first and the second disk substrates are laminated with a transparent adhesive layer interposed there between in a manner that the translucent intermediate layer faces the interface layer. A reflectivity (R) at a portion of a recording mark formed on any of the first and the second recording layers becomes higher than a reflectivity (R0) at a portion on the recording layer where the recording mark is not formed (R1/R0).

IT 200604-04-5, salts with monomethyl-azo cobalt dye
RE 267 Device component use, NON (modifier or additive use), USES (uses)
organic dye-containing multilayer optical recording medium

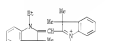
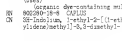
IN 200604-04-5 CAPULE

ON 2H-2-methyl-2-[(1-ethyl-1,3-dihydro-1,3,2-trimethyl-2H-indol-2-ylidene)methyl]-1,3,2-trimethyl-1,3-dihydro-2H-indol-2-ylidene (I) (CA INDEX NAME)

CH 1

CN 161002-00-9

CP C01 B01 NC



LA NUMBER 12 OF 14 CAPULE COPYRIGHT 2006 ACS ON STM (Continued)

IN Shimizu, Masahito; Tatebe, Tetsuo; Tsuchiya, Masahiro

PA Dai Corporation, Japan

SO Jpn. Kokai Tokkyo Koho, 17pp.

CO JPN. TOKYO

JP Patent

LA Japanese

PAN INT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006062211	A	20060815	JP 2006-201696	20060801
JP 2006-201696	A	20060921		

AB The invention relates to an optical recording (multihalocyanine) dye capable of recording using a recording wavelength 405 nm (400-440 nm), wherein the dye has a first refractive index peak at 200-1.0 nm and a second refractive index peak at 450-700 nm.

IT 200604-04-5

RE TM (technical or engineering material use), USES (uses)
Use showing good optical modulation and improved storage stability,
optical recording material, and optical recording medium

IN 200604-04-5 CAPULE

ON 2H-2-methyl-2-[(1,3-dihydro-1,3,2-trimethyl-2H-indol-2-ylidene)methyl]-1,3,2-trimethyl-1,3-dihydro-2H-indol-2-ylidene (I) (CA INDEX NAME)

CH 1

CN 161002-00-9

CP C01 B01 NC



CH 2

CN 161002-00-9

CP C01 B01 NC

CC C01 B01 NC



LA NUMBER 14 OF 14 CAPULE COPYRIGHT 2006 ACS ON STM
AN 2006-042061 CAPULE
IN 14E-018405

TI Manufacture of metal structure having metal film on substrate

IN Masahito, Yoshiaki; Ota, Hiroshi; Akashi, Haruo; Suzuki, Hiroshi

PA Hitachi Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 18 pp.

CO JPN. TOKYO

JP Patent

LA Japanese

PAN INT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006019069	A	20060810	JP 2006-192956	20060127
US 2006019069	A1	20060917	US 2006-010670	20060127
CN 161002-00-9	A	20060909	CN 2006-1000006	20060127

AB The method comprises forming the metal film-forming part of a substrate from an elec. conductor having rugged surface and forming preferentially a metal film on the rugged surface of the elec. conductor by electroplating Co or Cu alloy is preferably electroplated. Optionally, cyanine dye is added to the electroplating bath.

IT 200604-04-5
RE TM (technical or engineering material use), USES (uses)
method for manufacturing metal structure by preferential electroplating of

Co or Cu alloy on elec. conductor having rugged surface formed on substrate)

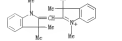
IN 200604-04-5 CAPULE

ON 2H-2-methyl-2-[(1,3-dihydro-1,3,2-trimethyl-2H-indol-2-ylidene)methyl]-1,3,2-trimethyl-1,3-dihydro-2H-indol-2-ylidene (I) (CA INDEX NAME)

CH 1

CN 161002-00-9

CP C01 B01 NC



CH 2

CN 161002-00-9

CP C01 B01 NC



LA ANKER 16 0F 74 CAPULE OMPYRIGHT 2006 ACS on STM (Continued)
 *O)-5-nitrophenyl]aziridin-4-ylmethyl-2-oxo-6-(aziridin-2-yl)
 pyridinecarboxylate(2-)]cobaltate(1-)] (CCT) (CA INDEX NAME)

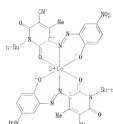
Cl 1

CIN 866757-37-9
 CIP C34 B50 Gc N10 010
 CCI CCS



Cl 2

CIN 330443-50-7
 CIP C34 B50 Gc N10 010
 CCI CCS



LA ANKER 16 0F 74 CAPULE
 Cl 3-Indolium, 1'-ethyl-2'-[(1-ethyl-5,3-dimethyl-2H-indol-2-ylidene)methyl]-
 5,3-dimethyl-, bis[1'-butyl-1,1,6,6-tetrahydro-5-[(2-lydroxy-40-6-
 nitrophenyl]aziridin-4-ylmethyl)-2-oxo-6-(aziridin-2-yl)
 pyridinecarboxylate(2-)]cobaltate(1-)] (CCT) (CA INDEX NAME)

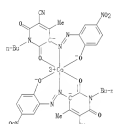
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CIN 602280-18-6
 CIP C35 B51 Nc

LA ANKER 16 0F 74 CAPULE OMPYRIGHT 2006 ACS on STM (Continued)

Cl 2

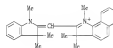
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 CIP C34 B50 Gc N10 010
 CCI CCS



LA ANKER 16 0F 74 CAPULE
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 ylidene)methyl]-5-ethyl-1,1-dimethyl-, bis[1'-butyl-1,1,6,6-tetrahydro-5-[(2-
 hydroxy-40-6-nitrophenyl]aziridin-4-ylmethyl)-2-oxo-6-(aziridin-2-yl)
 pyridinecarboxylate(2-)]cobaltate(1-)] (CCT) (CA INDEX NAME)

Cl 1

CIN 866757-34-8
 CIP C37 B59 Nc



Cl 2

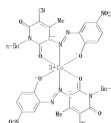
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 CCI CCS

LA ANKER 16 0F 74 CAPULE OMPYRIGHT 2006 ACS on STM (Continued)



Cl 2

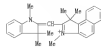
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 CCI CCS



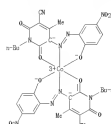
LA ANKER 16 0F 74 CAPULE
 Cl 3-Indolium, 2'-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-
 ylidene)methyl]-1,1,3-trimethyl-, bis[1'-butyl-1,1,6,6-tetrahydro-5-[(2-
 hydroxy-40-6-nitrophenyl]aziridin-4-ylmethyl)-2-oxo-6-(aziridin-2-yl)
 pyridinecarboxylate(2-)]cobaltate(1-)] (CCT) (CA INDEX NAME)

Cl 1

CIN 866757-32-6
 CIP C37 B59 Nc



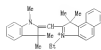
LA ANKER 16 0F 74 CAPULE OMPYRIGHT 2006 ACS on STM (Continued)



LA ANKER 16 0F 74 CAPULE
 Cl 3-Indolium, 2'-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-
 ylidene)methyl]-5-ethyl-1,1-dimethyl-, bis[1'-butyl-1,1,6,6-tetrahydro-5-[(2-
 hydroxy-40-6-nitrophenyl]aziridin-4-ylmethyl)-2-oxo-6-(aziridin-2-yl)
 pyridinecarboxylate(2-)]cobaltate(1-)] (CCT) (CA INDEX NAME)

Cl 1

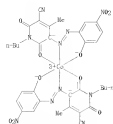
CIN 866757-36-0
 CIP C38 B51 Nc



Cl 2

CIN 330443-50-7
 CIP C34 B50 Gc N10 010
 CCI CCS

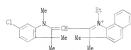
LA ANKER 16 0F 74 CAPLUS OMPYRIGHT 2006 ACS ON STN (Continued)



IN 060757-29-0 CAPLUS
 CN 20060410-0 CAPLUS
 2-[(6-chloro-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1-methyl-3,3-dimethyl-1H-1-benzotriazin-4-ylidene-6-nitrophenylazo-4-methyl-2-oxo-6-oxo-3-pyridinecarboxylate(2-)-1-sulfate(1-)(Cl) (CA INDEX NAME)

CN 1

CN 060757-28-0
 CNF 128 150 Cl N2



CN 5

CN 320645-00-0
 CNF 124 150 Cl N10 000
 OCC CCS

LA ANKER 17 0F 74 CAPLUS OMPYRIGHT 2006 ACS ON STN

IN 0000-110670 CAPLUS
 IN 143 196409
 IT Recording material for medium
 IT Morita, Seiji; Nakamura, Kazu; Morishita, Naoki; Nakamura, Naomasa;
 Iizawa, Yumiko; Oyama, Yumiko;
 PA Kokusai Kaisha Tokyo, Japan; Hayashida Biochemical Laboratories,
 Inc

SO U S Pat. Appl. Publ., 26 pp.

JP Patent
 LA Saitoh

CAPLUS

PATENT NO.		INDEX	DATE	APPLICATION NO.	DATE
PI	US 2006022178	A1	20061013	US 2000-100646	20000412
	JP 2006297406	A	20061027	JP 2000-118544	20000413
	EP 1857005	A	20061019	EP 2000-100621	20000404
	EP 1857005	A3	20060416		
	IL 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000				
	IN 20060220978	A	20061013	IN 2000-100872	20000406
	IN 1064111	X	20061019	IN 2000-1005578	20000413
	US 200601867	A	20060417	US 2000-200690	20000413
	US 200611854	A	20060413		
FRAC	MUMPAT 143 594640				

US 2004-119844 A 20040613
 000PAT 143 398409
 The present invention relates to a recording material for a medium used for the recording film of a write-once type information recording disk equipped with a transparent resin substrate on which concentric or spiral grooves were formed and a recording film which was formed on the grooves, characterized in that it is formed by one organic coloring matter having an amino portion and a colorless matter portion in which the maxima absorption wavelength zone exists at a longer wavelength side than the wavelength of short wavelength laser beam irradiated on the recording film and forms a record mark on the recording film by irradiation of the short wavelength laser beam, and the record mark has a higher optical reflection coefficient than the optical reflection coefficient of the recording film before irradiation of the short wavelength laser beam. This material realizes a recordable low to high

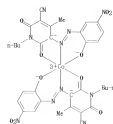
IT 000999-41-0 CAPLUS
 000999-41-0 CAPLUS
 2-[(6-chloro-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-1H-1-benzotriazin-4-ylidene-6-nitrophenylazo-4-methyl-2-oxo-6-oxo-3-pyridinecarboxylate(2-)-1-sulfate(1-)(Cl) (CA INDEX NAME)

CN 1

CN 61575-70-0
 CNF 123 157 N2



LA ANKER 16 0F 74 CAPLUS OMPYRIGHT 2006 ACS ON STN (Continued)



IN 060757-28-0 CAPLUS
 CN 20060410-0 CAPLUS
 2-[(6-chloro-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-1H-1-benzotriazin-4-ylidene-6-nitrophenylazo-4-methyl-2-oxo-6-oxo-3-pyridinecarboxylate(2-)-1-sulfate(1-)(Cl) (CA INDEX NAME)

CN 1

CN 060757-28-0
 CNF 123 150 Cl N2



CN 5

CN 320645-00-0
 CNF 124 150 Cl N10 000
 OCC CCS

LA ANKER 17 0F 74 CAPLUS OMPYRIGHT 2006 ACS ON STN (Continued)

IN 0000-110670 CAPLUS
 IN 143 196409
 IT Recording material for medium
 IT Morita, Seiji; Nakamura, Kazu; Morishita, Naoki; Nakamura, Naomasa;
 Iizawa, Yumiko; Oyama, Yumiko;
 PA Kokusai Kaisha Tokyo, Japan; Hayashida Biochemical Laboratories,
 Inc

SO U S Pat. Appl. Publ., 26 pp.

JP Patent
 LA Saitoh

CAPLUS

IN	066757-26-8	CAPLUS
CN	2H-Indolizin, 2-[[[1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-1H-indol-2-ylidene)-2,5,6-tetrahydro-5-[2-(3-hydroxy-3-methyl-2-oxopropyl)diazenyl]-4H-4-methyl-2-oxo-6-(6-methyl-2-pyridinylcarboxylatylato-7(2H)-cyclohept-1-yl)] (CA INDEX NAME)	
	CH	1
	CN	250642-50-7
	OP	234 120 Co N10 010
	CC	023

US 2004-119844 A 20040613
 000PAT 143 398409
 The present invention relates to a recording material for a medium used for the recording film of a write-once type information recording disk equipped with a transparent resin substrate on which concentric or spiral grooves were formed and a recording film which was formed on the grooves, characterized in that it is formed by one organic coloring matter having an amino portion and a colorless matter portion in which the maxima absorption wavelength zone exists at a longer wavelength side than the wavelength of short wavelength laser beam irradiated on the recording film and forms a record mark on the recording film by irradiation of the short wavelength laser beam, and the record mark has a higher optical reflection coefficient than the optical reflection coefficient of the recording film before irradiation of the short wavelength laser beam. This material realizes a recordable low to high

IT 000999-41-0 CAPLUS
 000999-41-0 CAPLUS
 2-[(6-chloro-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-1H-1-benzotriazin-4-ylidene-6-nitrophenylazo-4-methyl-2-oxo-6-oxo-3-pyridinecarboxylate(2-)-1-sulfate(1-)(Cl) (CA INDEX NAME)

CN 1

CN 61575-70-0
 CNF 123 157 N2



IN 060757-28-0 CAPLUS

LA ANKER 17 OF 74 CAPLIS OMPRIGHT 2006 ACS on STM (Continued)
 CN 2H-Indolium, 2-[(1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-1-ethyl-5,5-dimethyl-, bis[1-butyl-1,2,4,6-tetrahydro-6-[[2-(hydrazonyl-4-methyl-2-oxo-6-oxo-4H-pyridine-3-carboxylato(2-))cohalate(1-))] (CN) (CA INDEX NAME)

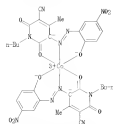
CM 1

CN 666737-37-9
 CIP C14 H29 N2



CM 2

CN 330442-60-7
 CIP C14 H20 Co N10 O10
 CCI CCS



BN 666737-39-1 CAPLIS
 CN 2H-Indolium, 1-ethyl-2-[(1-ethyl-5,5-dimethyl-2H-indol-2-ylidene)methyl]-5,5-dimethyl-, bis[1-butyl-1,2,4,6-tetrahydro-6-[[2-(hydrazonyl-4-methyl-2-oxo-6-oxo-4H-pyridine-3-carboxylato(2-))cohalate(1-))] (CN) (CA INDEX NAME)

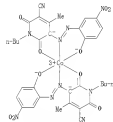
CM 1

CN 802280-12-6
 CIP C25 H31 N2

LA ANKER 17 OF 74 CAPLIS OMPRIGHT 2006 ACS on STM (Continued)

CM 2

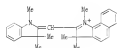
CN 330442-60-7
 CIP C14 H20 Co N10 O10
 CCI CCS



BN 666737-35-9 CAPLIS
 CN 2H-Benz[e]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,4,6-tetrahydro-6-[[2-(hydrazonyl-4-methyl-2-oxo-6-oxo-4H-pyridine-3-carboxylato(2-))cohalate(1-))] (CN) (CA INDEX NAME)

CM 1

CN 666737-34-6
 CIP C27 H33 N2



CM 2

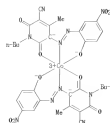
CN 330442-60-7
 CIP C14 H20 Co N10 O10
 CCI CCS

LA ANKER 17 OF 74 CAPLIS OMPRIGHT 2006 ACS on STM (Continued)



CM 2

CN 330442-60-7
 CIP C14 H20 Co N10 O10
 CCI CCS

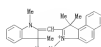


BN 666737-33-7 CAPLIS

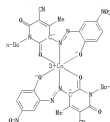
CN 1H-Benz[e]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, bis[1-butyl-1,2,4,6-tetrahydro-6-[[2-(hydrazonyl-4-methyl-2-oxo-6-oxo-4H-pyridine-3-carboxylato(2-))cohalate(1-))] (CN) (CA INDEX NAME)

CM 1

CN 666737-32-6
 CIP C27 H29 N2



LA ANKER 17 OF 74 CAPLIS OMPRIGHT 2006 ACS on STM (Continued)

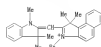


BN 666737-37-3 CAPLIS

CN 1H-Benz[e]indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-3-ethyl-1,1-dimethyl-, bis[1-butyl-1,2,4,6-tetrahydro-6-[[2-(hydrazonyl-4-methyl-2-oxo-6-oxo-4H-pyridine-3-carboxylato(2-))cohalate(1-))] (CN) (CA INDEX NAME)

CM 1

CN 666737-36-0
 CIP C28 H31 N2



CM 2

CN 330442-60-7
 CIP C14 H20 Co N10 O10
 CCI CCS

LA ANSWER 22 OF 74 CAPLIS: OFFRIGHT 2006 ACS on STN
 AN 2006-24149 CAPLIS
 IN 141-40622
 TI Erasable optical disk having 30 GB-class recording layers
 IN Kawasaki, Himamita
 PA Bush Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 24 pp.
 COOIN: JIKKAP

DI Patent
 LA Japanese
 PAK INT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FI JP 2005060330	A	20050603	JP 2000-136677	20000711
PRAL JP 2006194677		20060711		

AB The optical disk contains 42 recording layers which are based on ceramic material and have absorbance 0.01-0.1 toward the laser wavelength used in recording and erasing. Preferably, the organic layers are laminated with transparent spacer layers alternately, topped with a reflective layer. Preferably, the organic materials contain organic solutions with decomposition temperature 100-100°.

IT 002999-41-0

RI: TM (technical or engineering material used); USBS (uses)

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC



CH 2

CIN 14797-70-0

CF 1 04



LA ANSWER 22 OF 74 CAPLIS: OFFRIGHT 2006 ACS on STN (Continued)



CH 2

CIN 14797-70-0

CF 1 04



LA ANSWER 22 OF 74 CAPLIS: OFFRIGHT 2006 ACS on STN
 AN 2004-47260 CAPLIS
 IN 141-40622
 TI Optical recording disk containing cerium-based dielectric material for improved reduction in cross talk and manufacture thereof using spin coating

IN Panasonic, Shipbachi
 PA TSM Corporation, Japan
 SO Jpn. Kokai Tokkyo Koho, 41 pp.
 COOIN: JIKKAP

DI Patent
 LA Japanese
 PAK INT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FI JP 2000164116	A	20000610	JP 2000-324259	20001111
PRAL JP 2002-527219		20021111		

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

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CIN 61578-70-0

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IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

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CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

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IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CIN 61578-70-0

CF 220 527 NC

IN 20051215 example optical disk having 30 GB-class recording layers

IN 002999-41-0 CAPLIS

IN 20-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

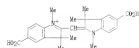
LA NUMBER 26 OF 74 CAPULE COPYRIGHT 2006 ACS ON STN
AN 2002-724529 CAPULE
IN 149-4623
TI Efficient sensitization of nanocrystalline TiO₂ films with cyanine and porphyrane organic dyes
AU Senoue, Katsuhiko; Teragishi, Shingo; Wada, Toshi; Hara, Kohiro; Ohsa, Junji; Shirota, Akira; Imai, Kazuo; Sakakura, Akiyoshi; Asanuma, Hiromichi
CJ Photoreaction Control Research Center (PCRC), National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Ibaraki, 305-8565, Japan
DO Solid State Materials and Solar Cells (SSC), 690-013, 47-71
ORGN 135MJA; ISSN 0027-0688
IP 1
PI Elsevier Science B.V.
LA Berlin

AB Various kinds of cyanine and porphyrane organic dyes having short anchoring groups as sensitizer on nanocrystalline TiO₂ electrodes were studied to increase the short-circuit photocurrent (J_{sc}) and the solar light-to-power conversion efficiency (η_{ap}). The J_{sc} and η_{ap} improved when the three different three dyes (violet and red cyanine dyes, and blue monovinyl cyanine dye) were adsorbed simultaneously on a TiO₂ electrode, as compared with the J_{sc} and η_{ap} of the TiO₂ electrodes coated by each single dye. The maximum η_{ap} was 3.1% (AM-1.5, 100 mW/cm²). The J_{sc} and η_{ap} were influenced by the solvent for the dye adsorption on the TiO₂ electrode, and the efficiencies were improved by the addition of some acidic acids into the dye solution for adsorption. The electron transfer and/or the energy transfer from the red cyanine dye to the blue cyanine dye was observed on a DMF film using electrochemical spectroscopy, suggesting a strong interaction between two dyes. The J_{sc} line segments of the blue cyanine dyes hardly showed sensitization efficiency.

IT 62040-20-0
RI 2471 Device component use; PEP (Physical); HERS (Hers) (wherein, a Co₂ adsorbed onto TiO₂ efficient sensitization of nanocrystalline TiO₂ films with cyanine and porphyrane organic dyes and dye mixtures)

IN 62040-20-0 CAPULE
CN 20-Indolium, 2-(4-carboxy-3,5-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl-1,1,3,3-tetramethyl-4-perchlorate (1:1) (CA INDEX NAME)
CM 1

CO 352961-14-0
COP 352 951 NO 04



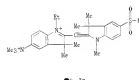
CM 3
CO 14790-75-0
COP 147 90 04

LA NUMBER 26 OF 74 CAPULE COPYRIGHT 2006 ACS ON STN
AN 2002-629716 CAPULE
IN 137-177067
TI Photopolymerizable composition containing organic borate
AU Katsunuma, Naomichi; Katsunuma, Naomichi; Katsunuma, Naomichi
DO Fuji Photo Film Co., Ltd., Japan
ORGN 135MJA; ISSN 0027-0688
IP 1
PI Elsevier Science B.V.

AB The photopolymerizable composition comprises a polymerizable compound having an ethylene moiety bonded to a dye represented by D⁺-[C₆H₄]-D⁺ cationic dye residue, quaternary dye residue, C⁺ cationic dye residue, single bond R⁺ cationic dye residue, and a polymerizable component (Q) which contains the polymerizable compound and is reactive with (Q). The photopolymerizable composition shows high sensitivity not only to UV light but also to light ranging from visible to IR light.

IT 640305-21-2
RI 25M (Technical or engineering material use); HERS (Hers) (wherein, a Co₂ adsorbed onto TiO₂ efficient sensitization of nanocrystalline TiO₂ films with cyanine and porphyrane organic dyes and dye mixtures)

IN 640305-21-2 CAPULE
CN 20-Indolium, 2-(1,1,3,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl-1,1,3,3-tetramethyl-4-perchlorate (1:1) (CA INDEX NAME)
CM 1
CO 660501-02-0
COP 660 501 02 04



• 1 •

LA NUMBER 26 OF 74 CAPULE COPYRIGHT 2006 ACS ON STN (Continued)



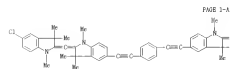
RE CNT 64 THREE AND 46 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE ISI FORWARD

LA NUMBER 26 OF 74 CAPULE COPYRIGHT 2006 ACS ON STN
AN 2002-629716 CAPULE
IN 137-177067
TI Mass spectrometry of oligomeric cyanines and squaraines of the indole series: fast atom bombardment-induced chemical reactions
AU Bocklisch, Thomas; Dohm, Helmut; Schomay, Hans-Wolfgang; Lavrenty, Ulf; Rittner, Marius; Schelb, Hans-Martin; Scholz, Peter
DO Inst. Organische Chemie, Univ. Bremen, Bremen, D-28358, Germany
ORGN 135MJA; ISSN 0027-0688
IP 1
PI Elsevier Science B.V.

AB Fast atom bombardment (FAB) has been used for mass spectrometric characterization of oligomeric cyanines and squaraines of the indole series which are linked by different aromatic spacers. Markedly different results were obtained for the oligomers and for the corresponding monomers. In addition to the expected mono-mono- and mono-mono-, ions of high relative abundance were detected which can only be explained on the basis of FAB-induced chemical reactions of the initial cations. Formation of FAB-induced chemical reactions of the initial cations. Formation of FAB-induced chemical reactions of the initial cations. Formation of FAB-induced chemical reactions of the initial cations.

IT 640305-21-2
RI 25M (Technical or engineering material use); HERS (Hers) (wherein, a Co₂ adsorbed onto TiO₂ efficient sensitization of nanocrystalline TiO₂ films with cyanine and porphyrane organic dyes and dye mixtures)

IN 640305-21-2 CAPULE
CN 20-Indolium, 2-(1,1,3,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl-1,1,3,3-tetramethyl-4-perchlorate (1:1) (CA INDEX NAME)
CM 1
CO 660501-02-0
COP 660 501 02 04



PAGE 3-A



PAGE 1-S

LA ANKER 30 OF 74 CAPLUS OMPYRIGHT 2006 ACS on STM (Continued)

CM 2

CIN 14790-72-0

CIF Cl 04



IT 458557-41-8

RU CFC (Chemical process), PEP (Physical, engineering or chemical process), RT (Resistant), POC (Process), RCT (Resistant or resistant), GSC (Geometry of oligomers, optines and resistance of the molecule)

IN 458557-41-8 CAPLUS

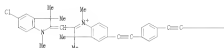
CN 201 Indium, 1,1'-[1,4-bis(phenyl)-2,2'-ethylenediyl]bis[2-(5-chloro-1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-1,3,5-trimethyl-2,2'-diphenylate (NCT) (CA INOEL NAME)

CM 1

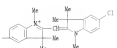
CIN 458557-90-7

CIF 156 854 C12 N4

PAGE 1-A



PAGE 1-B



CM 2

CIN 14790-72-0

CIF Cl 04

LA ANKER 30 OF 74 CAPLUS OMPYRIGHT 2006 ACS on STM (Continued)



RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE.FORMAT

LA ANKER 51 OF 74 CAPLUS OMPYRIGHT 2006 ACS on STM

IN 0000-007004 CAPLUS

IN 0000-007004

CN Copper electroplating baths and method for manufacturing semiconductor integrated circuits with no voids and seams by damascene method using them

IN Banbata, Ichiro; Tanaka, Takashi; Akashi, Haruo; Fukaya, Shiroshi

PA Hitachi Ltd., Japan

SP Jpn. Kokai Tokushu Koho, 10 pp

COEN 73344F

IT Patent

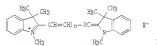
LA Japanese

FRAN CNT

PATENT NO	IND	DATE	APPLICATION NO	DATE
JP 2000153300	A	20000621	JP 2000-243060	20001116
JP 20001719	BC	20000829		
US 20000084191	A1	20000704	US 2000-688642	20001026
US 2000007447	A1	20000425	US 2000-690582	20001116
JP 2000-346660	A	20001116		
US 2000-688642	A1	20000826		

GT

LA ANKER 51 OF 74 CAPLUS OMPYRIGHT 2006 ACS on STM (Continued)



I

AB The bath contains Cu 50%, an electrolyte, and a sparsone dye, an indolium compound, and 1 (R⁺ = anion, n = 0-5). The method gives an IC with good electrochromic response

IT 165266-41-8, 2H-Indolium, 2-[(1,3-dihydro-1,3,5-trimethyl-2H-indol-5-ylidene)methyl]-1,3,5-trimethyl-2,2'-diphenylate

RU RCU (Other use, unclassified), USGS (Other)

RU (Electroplating bath containing: manufacture of IC with good electrochromic response by damascene method using Cu electroplating baths containing

crystalline dye)

CN 165266-41-8 CAPLUS

CN 201 Indolium, 2-[(1,3-dihydro-1,3,5-trimethyl-2H-indol-5-ylidene)methyl]-1,3,5-trimethyl-2,2'-diphenylate (1:1) (CA INOEL NAME)

CM 1

CIN 61578-70-0

CIF 123 857 N2



CM 2

CIN 14790-72-0

CIF Cl 04

LA ANKER 32 OF 74 CAPLIS: OMPYRIGHT 2006 ACS on STN
AK 2001-186225: CAPLIS

IN 137-14447
T1 Nonlinear optical properties of specific polyethynines: Influence of substituents and chain length.

AS Feldner, Andreas; Scherdt, Dieter; Welsch, Markus; Voortman, Thomas; Schewer, Marius; Lorenz, Ulf; Lase, Thomas; Johnson, Hans-Bernard; Grah, Wilke

CS Carlthoff for Experimentalfysik II and Max-Planck-Institut für Makromolekelforschung, Universität Bayreuth, Bayreuth, D-95440, Germany

IN 137-14447, Section B: Nonlinear Optics (2006), 36(1-3), 99-106

CSGN 18-0608, ISSN 1069-7268

Jordan & Breach Science Publishers

PT Journal

LA English

AS The nonlinear optical response of conjugated π -electron systems of dye oligomers, including cyanines, triad merocyanines, and oligomers were studied. The three-wave nonlinear optical susceptibility $\chi^{(3)}$ of dye films was studied using THz (third harmonic generation), DPM (degenerate four-wave mixing), and pump-probe experiments. The nonlinear susceptibility was obtained from variations of $\chi^{(3)}$ with concentration. The two-photon absorption was determined from two-photon fluorescence data. Time-resolved measurements did not show any broadening of the third-order autocorrelation. The energy level and optical absorption cross sections of two-photon excited states were also obtained from two-photon fluorescence data.

IT E115-71-1, E115-71-2, E115-71-3, E115-71-4

E115-71-5, E115-71-6, E115-71-7, E115-71-8

E115-71-9, E115-71-10, E115-71-11, E115-71-12

RE: FPG (Femtosecond Pumping) and chain length on nonlinear optical properties of conjugated cyanine and merocyanine and squaraine polyethynines.

IN E115-71-1 CAPLIS
CN 38-Indolium, 2-[[1,3-bis(4-hydroxy-1,3,5-trimethyl-2H-indol-2-yl)idene]methyl]-1,3,5-trimethyl-, tetrafluoroborate (1-) (1:1) (CA INDEX NAME)

OM 1

CN E115-71-2

CN E115-71-3

CN E115-71-4

CN E115-71-5

CN E115-71-6

CN E115-71-7

CN E115-71-8

CN E115-71-9

CN E115-71-10

CN E115-71-11

CN E115-71-12

CN E115-71-13

CN E115-71-14

CN E115-71-15

CN E115-71-16

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CN E115-71-18

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CN E115-71-228

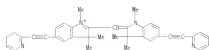
CN E115-71-229

CN E115-71-230

CN E115-71-231

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LA ANKER 32 OF 74 CAPLIS OMYRIGHT 2006 ACS ON STM (Continued)

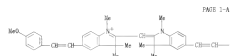


CM 2

CEN 14814-70-6
COP B F4
CCS CCS

BN 456158-96-2 CAPLIS
CN 2H-Indolium, 2-[(1,3-dihydro-5-[2-(4-methoxyphenyl)ethyl]-1,3,5-trimethyl-2H-indol-2-ylidene)ethyl]-3-[3-(4-methoxyphenyl)ethyl]-1,3,5-trimethyl-, tetrafluoroborate(1-)⁻ (1:1) (A INDEX NAME)

CM 1

CEN 456158-96-1
COP C4 B45 NC NG

PAGE 1-A

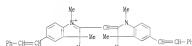


PAGE 1-B

CM 2

CEN 14814-70-6

LA ANKER 32 OF 74 CAPLIS OMYRIGHT 2006 ACS ON STM (Continued)



CM 2

CEN 14814-70-6
COP B F4
CCS CCS

RE CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE XB FORMAT

LA ANKER 32 OF 74 CAPLIS OMYRIGHT 2006 ACS ON STM (Continued)

COP B F4
CCS CCS

BN 456158-99-4 CAPLIS

CN 2H-Indolium, 2-[(1,3-dihydro-1,3,5-trimethyl-5-G-thienyl)-2H-indol-2-ylidene)ethyl]-1,3,5-trimethyl-5-G-thienyl-, tetrafluoroborate(1-)⁻ (1:1) (A INDEX NAME)

CM 1

CEN 456158-99-3
COP C3 B51 NC SG

CM 2

CEN 14814-70-6
COP B F4
CCS CCS

BN 456158-99-1 CAPLIS

CN 2H-Indolium, 2-[(1,3-dihydro-1,3,5-trimethyl-5-G-thienylethynyl)-2H-indol-2-ylidene)ethyl]-1,3,5-trimethyl-5-G-thienylethynyl-, tetrafluoroborate(1-)⁻ (1:1) (A INDEX NAME)

CM 1

CEN 456158-99-5
COP C3 B59 NG

LA ANKER 32 OF 74 CAPLIS OMYRIGHT 2006 ACS ON STM

BN 2001-771690 CAPLIS

TI Ab Initio (CASPT2) excited state calculations, including circular dichroism, of helically twisted cyanine dyes

AU Schreiber, Marko; Vahrenholt, Rainer; Henn, Volker; Falscher, Markus P.

CS Institut für Physikalische und Theoretische Chemie,

Georg-August-Universität, Duesburg, D-48603, Germany

50 Chirality (2000), 12(9), 671-676

ORCID: CHEMPF, ISSN: 0950-9605

FB Wiler-Lien, Inc.

PT Journal

AB Regio-

AB Ab initio calcns. at the CAS/CP/CASPT2 level were performed on helically twisted nore-, tri-, and pentamethine cyanine dyes in the all-2-conformations. Excitation energies and oscillator and rotatory strengths were calculated for the five lowest energy singlet states. Both the long wavelength noreline band and the c-p band could be identified unambiguously from their configurational parentage. The calculated state energies are within 0.09 eV of the exp't. value for the noreline band and within 0.36 eV for the c-p band. The calculated rotatory strengths of the noreline band show sign inversion as the length of the chromophore increases: neg. for the short noreline, strongly pos. for the pentamethine. The triethine presents a borderline case: the measured rotatory strength is almost nil, the calculated one depends on the geometry. There is good agreement between rotatory strengths calculated in the velocity and in the length formalism.

57 SACS-99-2

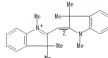
RE FRP (Properties): TEM (Technical or engineered material use), USES (use)

(use): ab initio excited state calcns., including CM, of helically twisted cyanine dyes)

BN SACS-99-2 CAPLIS

CN 2H-Indolium, 2-[(1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)ethyl]-1,3,5-trimethyl- (A INDEX NAME)

Double bond geometry as shown



RE CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE XB FORMAT

LA ANDER 41 OF 74 CAPULE COPYRIGHT 2006 ACS on STN
AN 1999-192526 CAPULE

IN 132-14549
TI Molecules in ground and excited states - ab initio molecular dynamics as a computational tool in chemistry

AT Palenik, S.; Sosa, V.
CS Institut für Physikalische und Theoretische Chemie,
Gerhard-Mercator-Universität, Duisburg, D 47048, Germany
DO Structure and Dynamics of Interconverting Systems: From Molecules and
Clusters in Complex Environment to Thin Films and Multilayers.
International Symposium, Duisburg, Germany, Feb. 24-26, 1999 CMOB,
Meeting Date 1999, 17-26, Editor(s): Briel, Peter, Wjlf, Dietrich B.
Publisher: World Scientific Publishing Co. Pte. Ltd., Singapore,
Singapore
CODEN CMOB

CONFERENCE

LA Berlin

AB The results of 2 ab initio mol. dynamics (AIMD) simulations of
semiconducting organic solids are described, 1) in the (electronic) ground state
and the other 2) in the excited state. Gradients obtained from non-empirical
calculations of the electronic wave function are used to drive the motions of
the nuclei by a numerical, fast-wave approximation of Newton's equations. In
the 1st simulation, the relaxation of a semiconducting dye from the planar
transition state to the helically twisted min-energy geometry is studied,
a reaction which involves only the electronic ground state of the mol.
In the 2nd example, the isomerization about the central double bond of the
5,1-pentadienyl- π -anion mol. was followed in an electronically excited
state, a reaction which serves as a model for the initial step in the
visual recovery of the vertebrate eye. Both simulations yield reaction
trajectories that agree with classical expectations and with results
previously obtained by others.

IT RE: FEP (Proprietary), engineering or computer process; FEP (Proprietary);
FEP (Proprietary)
AB (ab initio mol. dynamics as a computational tool in chemical of solids, in
ground and excited states)

IN RE: FEP-00-0 CAPULE
DO 2H-tetradim, 2-(11,3-dihydro-1,3,2-trimethyl-2H-indol-2-ylidene)methyl-
1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)



RE CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

LA ANDER 41 OF 74 CAPULE COPYRIGHT 2006 ACS on STN (Continued)



RE CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

LA ANDER 41 OF 74 CAPULE COPYRIGHT 2006 ACS on STN
AN 1999-192526 CAPULE

IN 132-14549
TI Optical and thermal properties of a cyanine dye medium for next-generation
3D-Fe

AT Sun, S.; Chen, F.; Zhou, S.; Qian, Z.; Zheng, D.; Tsunoki, O.; Mizuki, H.
CS Institute of Holographic Chemistry, The Chinese Academy of Sciences,
Beijing, 100040, PRC; Rep. China
DO Imaging 2-D and 3-D Holograms (1999), 47(2), 119-127
CODEN HOCHN; ISSN 1048-2199
IN Royal Photographic Society of Great Britain
IT Journal
LA Berlin

AB A dye material for the next generation of digital versatile
disc recorder (high-definition DVD-R) is required to absorb at a
shorter wavelength compared with conventional dye media. For this
purpose, 1,3,3,1,3,3'-hexamethyl-2,2'-indoline perchlorate (D-1),
whose maximum absorption band exists at 654 nm, was selected. Reflection
and transmission spectra of D-1 thin films were studied. Oscillation of
the reflectance and transmittance around 600 nm with film thickness can be
seen. The calculated complex refractive index is 2.15×10^{-08} . Its decomposition
temperature was measured to be around 282°C. Good solubility was observed in its
differential scanning calorimeter (DSC) curve. The optical and thermal
properties of D-1 and longer wavelength-absorbing indoline dye were
also compared.

IT RE: FEP (Proprietary), TEM (Technical or engineered material use); (IEEE
Class)

AB (Optical and thermal properties of cyanine dye for next-generation
stable digital versatile disk)

IN 190999-41-0 CAPULE
DO 2H-tetradim, 2-(11,3-dihydro-1,3,2-trimethyl-2H-indol-2-ylidene)methyl-
1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CNN 61570-70-0
CNP C23 S27 N0



CH 2

CNN 61570-70-0
CNP C1 66

LA ANDER 42 OF 74 CAPULE COPYRIGHT 2006 ACS on STN
AN 1999-450209 CAPULE

IN 131-108919
TI Multicolor Image-forming material

AT Tsuda, Masahito
CS Brother Kogyo Kabushiki Kaisha, Japan
DO Brit. Pat. Appl., 37 pp.

CODEN BPOKJW
DO Patent
LA Berlin

PAT CNT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1	EP 800639	01	19900721	19900115
	FI	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT,		
	TR, SI, CZ, LV, PL, NO			
	JP	1120044	JP 1993-28540	19940116
	US	6002529	US 1999-235762	19990112
PRA1	JP 1999-35403	1	19990116	

AB A multicolor image-forming material comprising a substrate and a plurality
of microparticles containing colorless dye precursors and photoreactive
compounds, with sensitive media in different wavelength regions. Each of
the photoreactive compounds contains a spectral sensitizer which is designed
so that there is apparently no crosslink in an image which is formed using
the image-forming material.

IT RE: TEM (Technical or engineered material use); (IEEE Class)
AB (Multicolor photoreactive materials with microparticles containing
photoreactive color-forming compounds, containing)

IN 190999-41-0 CAPULE
DO 2H-tetradim, 2-(11,3-dihydro-1,3,2-trimethyl-2H-indol-2-ylidene)methyl-
1,3,3-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

CNN 61570-70-0
CNP C23 S27 N0



CH 2

CNN 14790-70-0
CNP C1 64



RE CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

LA ANSWER 42 OF 74 CAPLUS OFFRIGHT 2006 ACS on STM (Continued)

LA ANSWER 43 OF 74 CAPLUS OFFRIGHT 2006 ACS on STM
 AN 1999-226644 CAPLUS
 IN 121 60010
 TI Structure and dynamics of helically twisted cyanine dyes
 AU Palencki, Stephan; Tostogen, Frank; Bonn, Müller
 CS Institut für Physikalische und Theoretische Chemie,
 Gerhard-Mercator-Universität Duisburg, Duisburg, D-47048, Germany
 SO Chemical Physics (1999), 243(3-7), 179-188
 ODNW 0950-4230, ISSN 0950-4230
 PB Elsevier Science B.V.
 DT Journal
 LA English
 AB Optimized geometries of two helically twisted C₃₀ monochloro dyes and
 of two transline dyes have been obtained at the RHF/6-31G** and (for the
 monochloro dyes) the RHF/6-31G** level. The nonplanar deformation of the
 diacetylene is reproduced quantitatively by the values. Chiral substitution
 of the dyes renders optically twisted configurations diastereomeric. The
 calculated energy difference between the diastereomers is in satisfactory
 agreement with the experimental data where available and is found to be
 hyperconjugative in nature. The inversion of one of the monochloro dyes
 involves a planar transition state. The relaxation from there is followed
 by an initial *rac* dynamics.
 IT 61575-71-1
 RE FRP (Properties); TEM (Technical or engineering material use); UCES
 (Uses)
 AB Monochloro dye, structure and dynamics of helically twisted mono- and
 transline dyes
 IN 61575-71-1 CAPLUS
 ON 3H-Iodolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-
 1,3,3-trimethyl-, tetrafluoroborate(1-)- (1:1) C.A. INDEX NAME
 CN 1
 CEN 61575-70-0
 CNF C23 E57 N2



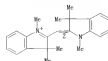
CM 2
 CEN 14874-70-5
 CNF B P4
 CCI CCS



LA ANSWER 44 OF 74 CAPLUS OFFRIGHT 2006 ACS on STM (Continued)
 RE ON 29 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE XB FORMAT

LA ANSWER 44 OF 74 CAPLUS OFFRIGHT 2006 ACS on STM
 AN 1999-20816 CAPLUS
 IN 120-107881
 TI Hyperconjugation discriminates between helically twisted cyanine dyes
 AU Bonn, Volker; Palencki, Stephan; Kolster, Klaus
 CS Institut für Physikalische und Theoretische Chemie, Universität
 Duisburg, Duisburg, 47048, Germany
 SO Journal of Organic Chemistry (1999), 64(3), 1071-1073
 ODNW 104348; ISSN 0022-5363
 PB American Chemical Society
 DT Journal
 LA English
 GI
 AB The authors present experimental (NMR) and theoretical evidence that the charges in
 cyanine dyes can be shifted, via nonbonding resonance forms, into saturated
 positions in the molecule. Hyperconjugation is responsible for chiral
 discrimination observed in the twisted indocyanine dyes I (R₁ = H, R₂ = Pr)
 and II (R₁ = Me, R₂ = Pr). Bond lengths and dihedral angles were compared
 with those in I (R₁ = R₂ = Me) and II (R₁ = R₂ = Me).
 IT 60620-0085
 RE FRP (Properties)
 AB Hyperconjugation in helically twisted indocyanine dyes
 IN 60620-0085 CAPLUS
 ON 3H-Iodolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-
 1,3,3-trimethyl-, tetrafluoroborate(1-)- (1:1) C.A. INDEX
 NAME
 CN 1
 CEN 60620-99-0
 CNF C23 E57 N2

Double bond geometry as shown.



CM 2
 CEN 14874-70-5
 CNF B P4
 CCI CCS

LA INDEX 49 OF 74 CAPLID: OMPYRIGHT 2006 ACS on STN (Continued)



LA INDEX 49 OF 74 CAPLID: OMPYRIGHT 2006 ACS on STN
AN 1996 625560 CAPLID:
IN 125 11750
ORIP 125 25736, 25766
T1 Halogenated indolecarbazoles: synthesis, conformational behavior, and light absorption
AU Grzes, Walter, Johannes, Hans Hermann, Reinholdner, Joachim, Kretzsch, Bernhard, Westfahl, Ernst Ulrich
CS Inst. Organische Chemie, Technischen Universität Braunschweig, Braunschweig, D-38106, Germany
50 Liebigs Annalen (1997), 67, 1949-9
CODEN LANNHM 1997 0043-5460
R1
J1
J1 Journal
J1 English
AB The reactions of an indolecarbazole and its corresponding 1,5-dihalocyclohexene with N-halodimethylacetamide or mol. halogens result in the formation of the four chair-halogenated spirocyclic oxazanes. With an excess of the halogenating agent not only the chair but also the end groups are halogenated, affording further monomethines. The preferred conformations, UV/visible absorptions, and electron densities of the oxazanes are calculated by MO and PPP methods and exam. investigated using NMR, CD, VCD, as well as UV/visible spectroscopy.

IT 6152-71-1
R1 FMU (Formation, unclassified), FFP (Properties), RCT (Reactant), P008 (Formation, concentrated), RCT (Reactant or reagent)
(starting material: synthesis, conformational behavior and light absorption of halogenated indolecarbazoles)
IN 6152-71-1 CAPLID
CN 2H-indolium, 5-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, tetrafluoroborate(1-) (1:1) (CA INDEX NAME)

CN 1
CN 6152-70-0
OF C23 H27 N2



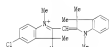
CN 2
CN 14874-70-6
OF B F4
OC1 CCS



LA INDEX 49 OF 74 CAPLID: OMPYRIGHT 2006 ACS on STN (Continued)

IT 16409-55-0 16409-55-0
R1 FFP (Properties), RCT (Reactant), RCT (Reactant or reagent)
(starting material: synthesis, conformational behavior and light absorption of halogenated indolecarbazoles)
IN 16409-55-0 CAPLID
CN 2H-indolium, 5-bromo-2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, tetrafluoroborate(1-) (1:1) (CA INDEX NAME)

CN 1
CN 16409-52-7
OF C23 H25 Cl N2

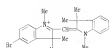


CN 2
CN 14874-70-6
OF B F4
OC1 CCS



IN 16409-55-0 CAPLID
CN 2H-indolium, 5-bromo-2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, tetrafluoroborate(1-) (1:1) (CA INDEX NAME)

CN 1
CN 16409-54-9
OF C23 H25 Br N2



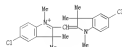
CN 2
CN 14874-70-6

LA INDEX 49 OF 74 CAPLID: OMPYRIGHT 2006 ACS on STN (Continued)
OF B F4
OC1 CCS



IT 77119-26-4
R1 FFP (Properties)
(synthesis, conformational behavior and light absorption of halogenated indolecarbazoles)
IN 77119-26-4 CAPLID
CN 2H-indolium, 5-bromo-2-[(5-chloro-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, tetrafluoroborate(1-) (1:1) (CA INDEX NAME)

CN 1
CN 77119-26-3
OF C23 H25 Cl N2



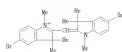
CN 2
CN 14874-70-6
OF B F4
OC1 CCS



IT 16409-49-0 16409-71-0 16409-72-0
16409-71-0 16409-71-0
R1 FFP (Properties), SYN (Synthetic preparation), FFP (Preparation)
(synthesis, conformational behavior and light absorption of halogenated indolecarbazoles)
IN 16409-49-0 CAPLID
CN 2H-indolium, 5-bromo-2-[(5-bromo-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, tetrafluoroborate(1-) (1:1) (CA INDEX NAME)

CN 1
CN 16409-60-5
OF C23 H25 Br2 N2

LA ANKER 49 OF 74 CAPULE OMPYRIGHT 2006 ACS on STM (Continued)



CM 2

CEN 14874-70-6
OFP B F4
OCL CCS

BN 164069-71-0 CAPULE
CN 2H-indolium, 2-[(1,3-dihydro-5-iodo-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, tetrafluoroborate(1-) (1:1) (CA INDEX NAME)

CM 1

CEN 164069-70-9
OFP CCS B2B B2 NO

CM 2

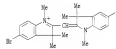
CEN 14874-70-6
OFP B F4
OCL CCS

LA ANKER 49 OF 74 CAPULE OMPYRIGHT 2006 ACS on STM (Continued)



BN 164069-77-6 CAPULE
CN 2H-indolium, 5-bromo-2-[(1,3-dihydro-5-iodo-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, tetrafluoroborate(1-) (1:1) (CA INDEX NAME)

CM 1

CEN 164069-76-5
OFP CCS B2B B2 I NO

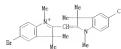
CM 2

CEN 14874-70-6
OFP B F4
OCL CCS

LA ANKER 49 OF 74 CAPULE OMPYRIGHT 2006 ACS on STM (Continued)

BN 164069-72-0 CAPULE
CN 2H-indolium, 5-bromo-2-[(8-chloro-1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, tetrafluoroborate(1-) (1:1) (CA INDEX NAME)

CM 1

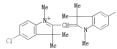
CEN 164069-72-1
OFP CCS B2B B2 Cl NO

CM 2

CEN 14874-70-6
OFP B F4
OCL CCS

BN 164069-75-4 CAPULE
CN 2H-indolium, 5-chloro-2-[(1,3-dihydro-5-iodo-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, tetrafluoroborate(1-) (1:1) (CA INDEX NAME)

CM 1

CEN 164069-74-3
OFP CCS B2B Cl I NO

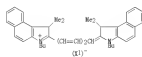
CM 2

CEN 14874-70-6

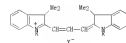
LA ANKER 50 OF 74 CAPULE OMPYRIGHT 2006 ACS on STM (Continued)

LA 1990-260006 CAPULE
BN 122-174000
DEPT 122-31000a, 31000a
TI Optical recording medium having cyanine dye recording layer
IN Genshiki, Atsumori, Ishizuka, Takayuki
PA Nippon Columbia, Japan
50 Drs. Kokai Tokyo Kohn, 5 pp.
OIGEN: JKKIAF
PT Patent
LA Japanese
FOL OUT

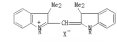
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
P1 JP 06250006	A	1994.11.06	JP 1990-266494	1992.09.09
PR1 JP 1990-266494	B2	1990.09.09	1990.09.09	
CI				



I



II



III

AB The medium consists of a transparent substrate successively coated with a recording layer consisting of a cyanine dye mixture containing I (I) = (Ia) and II (II = Me, Bu, CN7 (asc), Bu, I = Cl, Cl94) and a reflective layer. In the medium, the recording layer may consist of a mixture of III and II (II = Me, Bu). Recording was done using the medium by both semiconductor lasers and blue lasers.

IT 24526-20-6, NK 3212
RE: OPT Device component, use; TM (Technical or engineered material use); BENS (Bens)

IT 24526-20-6 CAPULE
CN 2H-indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, iodide (1:1) (CA INDEX NAME)

LA ANKER 50 OF 74 CAPLIS OMYRIGHT 2006 ACS on STN (Continued)

● I⁻

LA ANKER 51 OF 74 CAPLIS OMYRIGHT 2006 ACS on STN

AN 1994-641853 CAPLIS

IN 121-241853

ORIP 121-63900A, 63902A

TI Presenting lithographic printing plates with high sensitivity in near-IR region and manufacture thereof

IN Marukuni, Tatsunishi, Nakatsu, Keichi, Katsura, Hiroshi, Komura,

Tamura, Kato, Katsunori

IN Katsunori Photo Ind, Japan

50 Jpn Kokai Tokkyo Koho, 15 pp.

OCLN JKKXAT

PT Patent

LA Japanese

PAN ON

PATENT NO. KIND DATE APPLICATION NO. DATE

PT JP 06107139 A 19950806 JP 1990-67187 19920408

PRAL JP 1990-380983 A1 19911118

AS exposure of a photosensitive material composed of layers of a support

having a hydrophilic surface, a photosensitive composition layer, and a

transparent cover film in order to change adhesion strength between the

photosensitive composition layer and the cover film and/or between the

photosensitive composition layer and the support, and peeling off the cover

film to leave photosensitive composition layers on the support, in which the

photosensitive composition comprises at least a compound capable of adding

polymerizing or crosslinking, a borate complex of a cationic dye capable of absorbing

near-IR light, and optionally, an organic borate. The title manufacture comprises

the steps of effecting imageless exposure through the support or the

transparent cover film and peeling the cover film off. Preferably,

imageless exposure is carried out by scanning with a near-IR laser beam.

151001-00-9

IN US: (Invent)

IN 151001-00-9 CAPLIS (presented lithog. printing plate containing)

ON 10-Ben[e]indolium, 2-[(1,3-dihydro-1,3-trimethyl-3H-benz[e]indol-2-

-ylideneamino)]-1,1,3-trimethyl-, (7-4)-butyltriphenylborate(1-) (B-1)

CA INDEX NAME

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

LA ANKER 51 OF 74 CAPLIS OMYRIGHT 2006 ACS on STN (Continued)



LA ANKER 52 OF 74 CAPLIS OMYRIGHT 2006 ACS on STN

AN 1994-641853 CAPLIS

IN 121-241853

ORIP 121-63900A, 36072A

TI Image forming method

IN Katsunori, Hiroshi; Marukuni, Tatsunishi; Nakatsu, Keichi; Kato, Katsunori,

Komura, Yuzuru

IN Katsunori Photo Ind, Japan

50 Jpn Kokai Tokkyo Koho, 20 pp.

OCLN JKKXAT

PT Patent

LA Japanese

PAN ON

PATENT NO. KIND DATE APPLICATION NO. DATE

PT JP 06107139 A 19951015 JP 1990-79628 19920401

PRAL US 6146801 A 19960913 US 1990-51497 19930318

AS In the title image forming method which involves use of an image forming

material comprising a photosensitive composition layer and a cover film in

order on its support, the photosensitive composition contains an

additional-polymerizable or crosslinkable compound, and a borate complex of a

cationic dye, and an image is formed by heat exposing the image forming

material to a laser beam to cause different adhesive strength level of

the photosensitive layer to the support or the cover film between the

exposed and unexposed areas, releasing the cover film to form an image on

the support or on the cover film. 2 Variations are also claimed.

151001-00-9

IN US: (Invent)

IN 151001-00-9 CAPLIS (image forming method)

ON 10-Ben[e]indolium, 2-[(1,3-dihydro-1,3-trimethyl-3H-benz[e]indol-2-

-ylideneamino)]-1,1,3-trimethyl-, (7-4)-butyltriphenylborate(1-) (B-1)

CA INDEX NAME

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

ON 1

CN 151001-00-8

OIP C01 B01 N0

LA ANSWER 52 OF 74 CAPLIS COPYRIGHT 2006 ACS on STN (Continued)



LA ANSWER 52 OF 74 CAPLIS COPYRIGHT 2006 ACS on STN

AN 1994-551289 CAPLIS

IN 126-532597

ORIP 126-532726, 581232a

TI Optical recording media with cyanine dyes and polymethyl methacrylate

IN Ishizuka, Takayuki; Onitsuka, Atsushi

PA Nippon Columbia, Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

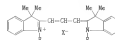
OOEN: JKKIAP

PT Patent

LA Japanese

PAN CPT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 60060415	A	19940615	JP 1992-296023	1992/0622
PRAT JP 1992-296023		19940615		
QC MARPAT 126-532597				
CI				



AB The media contain a transparent substrate successively coated with a recording layer containing a mixture with a cationic-based organic dye 1 (R = Me, Et, CH₃), (SO₂, X = Cl, CH₃) and poly(methyl methacrylate) and a reflection layer. The dye maps II (R = Me, Et, CH₃; X = I⁻, Cl⁻, Br⁻, CH₃).

IT 24556-20-6, NK 3212

RL USBS (base)

TI Optical recording media containing)

IN 24556-20-6 CAPLIS

ON 2H-Indolium, 5-[1,1,3,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, iodide (I.I) (CA INDEX NAME)

• I⁻

LA ANSWER 53 OF 74 CAPLIS COPYRIGHT 2006 ACS on STN (Continued)

LA ANSWER 54 OF 74 CAPLIS COPYRIGHT 2006 ACS on STN

AN 1992-263064 CAPLIS

IN 118-263264

ORIP 118-60713a, 60714a

TI Optical recording media with recording layer containing cyanine dyes

IN Ishizuka, Takayuki; Onitsuka, Atsushi

PA Nippon Columbia, Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

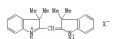
OOEN: JKKIAP

PT Patent

LA Japanese

PAN CPT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 60060879	A	19900619	JP 1991-221161	1991/0807
PRAT JP 1991-221161		1991/0807		
QC MARPAT 118-263064				
CI				

• I⁻

AB Optical recording media comprising a transparent substrate, a recording layer containing cyanine dye 1 (R = Me, Et, CH₃; X = I⁻, SO₂, iodide), and a reflective layer are claimed. High-speed recording by short-wavelength laser beam is accomplished by using I.

IT 24556-20-6

RL USBS (base)

TI Optical recording media with recording layer containing, for high-speed recording by short-wavelength laser beam)

IN 24556-20-6 CAPLIS

ON 2H-Indolium, 5-[1,1,3,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, iodide (I.I) (CA INDEX NAME)

• I⁻

LA ANWER 55 0F 74 CAPLUS OMPYRIGHT 2006 ACS ON STM

AN 1992-64282 CAPLUS

IN 117-43782

ORIP 117-41941, 41944a

T1 Cyanine dye laser recording medium

TX Utsunomiya, Masahiko

PA Osaka K. K., Japan

SP Jpn Kokai Tokkyo Koho, 5 pp.

GIVEN 2004AP

JP Patent

LA Japanese

FAN CPT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 1999-060661 A 19990610 JP 1999-189221 19990617

JP 1999-189221 19990717

AS In the title recording medium made by forming directly or through an

undercoating layer on a substrate a laser recording layer based on an organic

dye(s), the organic dye(s) is a cyanine dye and the recording layer has a

spectral absorption peak at 600-680 nm. The recording medium is claimed

to improve recording 2-4 times and is capable of being used to record

image sources which needs a high-capacity recording medium

IT 100009-41-0 144527-14-0

RE: DYES

Layer recording media containing)

IN 100009-41-0 CAPLUS

OR 100009-41-0 CAPLUS

TX Indium, 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

OR 14197-72-0

OR 14197-72-0

OR 14197-72-0

OR 14197-72-0

OR 14197-72-0

OR 14197-72-0

OR 14197-72-0

OR 14197-72-0

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OR 14197-72-0

OR 14197-72-0

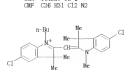
OR 14197-72-0

LA ANWER 55 0F 74 CAPLUS OMPYRIGHT 2006 ACS ON STM (Continued)

CH 1

OR 144527-13-9

OR 144527-13-9



CH 2

OR 14197-72-0

OR 14197-72-0



CH 2

OR 14197-72-0

OR 14197-72-0



IN 144527-14-0 CAPLUS

OR 100009-41-0 CAPLUS

TX Indium, 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

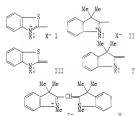
1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME)

CH 1

LA ANWER 56 0F 74 CAPLUS OMPYRIGHT 2006 ACS ON STM (Continued)



● 1"



AS The title toner, comprising 2-0, A sensitizing dye, and a binder resin,

and showing photosensitivity at 400-500 nm, contains, as the dye, a cyanine

dye, the cyanine dye is 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

1,3,5-trimethyl-, perchlorate (1:1) (CA INDEX NAME), or 2'-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-

LA NUMBER 69 OF 74 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
CN 3B-Tetradium, 2-[(1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-
1,3,5-trimethyl-4-methylbenzenesulfonate (1:1) (CA INDEX NAME)

CM 1
CIN 61175-70-0
CIP C23 E27 M2



CM 2
CIN 16722-51-3
CIP C7 HF M2 S



LA NUMBER 60 OF 74 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996-254526 CAPLUS
IN 196-254526
QREF 196-254526, 254526
TI UV-VIS and ESR spectroscopic investigation on polymethine dye radicals
AU Siegel, J.; Friedrich, M.; Kuhn, V.; Von Grossmann, J.; Faisler, D
C Bonn, 1996; 1996; 1996; 1996; 1996; 1996; 1996; 1996; 1996; 1996
DO Journal of Information Recording Materials (1996), 14(2), 215-26
COWW JIMBDA, ISSN 0963-9655
JF Journal
LA German
CI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AS Neutral and cationic radicals produced by electrochemical oxidation and reduction of polymethine dyes I (II) were characterized by absorption and ESR spectroscopy. The results indicated that during photoirradiation of the sensitized polymethine dye adsorbed on β -halide crystals, dye reduction takes place resulting in formation of the neutral radical.

IT 1962095-41-9
RL: USGS (Desa)
C Electrophoresis, reduction and oxidation, of, characterization of radicals produced in, in relation to photo; spectral sensitization
IN 1962095-41-9 CAPLUS
CN 3B-Tetradium, 2-[(1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-1,3,5-trimethyl-4-methylbenzenesulfonate (1:1) (CA INDEX NAME)

CM 1
CIN 61175-70-0
CIP C23 E27 M2



CM 2
CIN 14797-72-0
CIP C1 M4

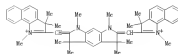


LA NUMBER 60 OF 74 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)

LA NUMBER 61 OF 74 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996-254526 CAPLUS
IN 196-254526
QREF 196-254526, 254526
TI Optical information recording material
AU Sato, Tetsuo; Abe, Michihiro; Abe, Hiroaki; Ueda, Yutaka; Umehara, Masaki
C Matsuyama, 1996; 1996; 1996; 1996; 1996; 1996; 1996; 1996; 1996; 1996
DO Jpn. Kokai Tokkyo Koho, 7 pp
COWW JKKM
JF Patent
LA Japanese
FAN ON

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PT JP 60022546	A	19861213	JP 1984-100640	19840630
PRAT JP 1984-100640		19860630		

CI For diamorphs, see printed CN issue.
AS The recording layer of the title material contains I (R = H, unsubstituted alkyl; R, Et, 2-propyl, aryl, allyl, alkylaryl; A, Al = heterocyclic ring; X = anion, k, m = 0, 1, 2). Writing and reading may be carried out by using a semiconductor laser light. Information recorded here has high d, and are durable. Thus, a 1,2-dichloroethane solution of II was sprayed on a PMMA disk to form a 60 Å layer. The recording was carried out by using a 700 m laser light. The signal-to-noise ratio before and after irradiation of the recorded disk with 6L 900 in V light for 50 h were 50 and 53 dB, resp.
IT 1962095-17-1 1962095-10-1 1962095-12-0
RL: USGS (Desa)
C Optical recording material with photosensitive layer containing
IN 1962095-17-1 CAPLUS
CN 3B-Tetradium, 2-[(1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)methyl]-1,3,5-trimethyl-4-methylbenzenesulfonate (1:1) (CA INDEX NAME)
CM 1
CIN 105009-16-0
CIP C23 E27 M2

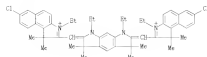


CM 2
CIN 16722-51-3
CIP C7 HF M2 S



IN 1962095-10-1 CAPLUS

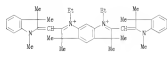
LA ANKER 61 OF 74 CAPLIC OMPIRIGHT 2006 ACS on STN (Continued)
 CN 3P-Ben[e]indolium, 2,2'-(1,7-diethyl-5,7-dihydro-3,3,5,5'-tetramethylbenzo[1,2-b:4,5-b']dipyrrolo-2,6-DIOL-26'-divinylidene)dinethylidenebis[4-chloro-3-ethyl-1,1-dimethyl-, diphenylacetate (XCI) (CA INDEX NAME)
 CM 1
 CRY 105527-09-8
 CXP C33 BEA C12 M4



CM 2
 CRY 14797-75-0
 CXP C1 04

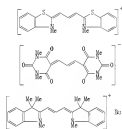


BN 060522-12-0 CAPLIC
 CN Benz[1,2-b:4,4'-b']dipyrrolo, 2,6-tin[(1,2-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl-], 2-diethyl-3,5-dihydro-3,5,5-tetramethyl-, perchlorate (I 37) (CA INDEX NAME)
 CM 1
 CRY 105527-11-2
 CXP C43 BE3 M4



CM 5
 CRY 14797-75-0
 CXP C1 04

LA ANKER 62 OF 74 CAPLIC OMPIRIGHT 2006 ACS on STN
 BN 1996-25467 CAPLIC
 CN 04-35441
 CRY 04-35441,4815a
 IT Solid-state chemistry of cyanine-type dyes and the effect of two novel counterions on their crystal properties
 AU Biter, Margaret C.; Bolina, Brian N.; Rosta, Keith S.; Phillips, George
 CS Chem. Rep., 1996, Minnesota, Minneapolis, MN, 35(4), 35A
 IS Israel Journal of Chemistry (1998), 25(2-3), 264-70
 JF 00020-355447, ISSN 0007-2145
 LA Journal
 G1 English



AS The chemical of two novel cyanine dye salts whose properties are controlled by the nature of their counterions is reported. In cyanine monol salts (e.g., [20348-83-5]), the monol counterion is a large planar dye which forms crystalline dye aggregates with cyanine ions. There is a multiplicity of polymorphic forms of these mixed dyes reflecting multiple favorable dye aggregate structures. The counterionate salts (e.g., [20458-25-9]) undergo internal solid-state reactions. In either large single crystals or dispersions of the latter salts in polymer binders, alky transfer from the anion to chromophore can be induced thermally or photochemically.

IT 060522-09-0
 RE. PMP (Properties)
 BN 060522-09-0 CAPLIC
 CN 2H-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, tetraethylborate(1-) (XCI) (CA INDEX NAME)
 CM 1

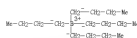
CRI 61575-00-0
 CXP C33 BE3 M2

LA ANKER 61 OF 74 CAPLIC OMPIRIGHT 2006 ACS on STN (Continued)
 O=C(=O)O

LA ANKER 62 OF 74 CAPLIC OMPIRIGHT 2006 ACS on STN (Continued)



CM 2
 CRY 24651-47-6
 CXP C16 BE4 B
 CCI CCS



IT 060522-22-0 060522-81-1
 RE. PMP (Properties)
 BN 060522-22-0 CAPLIC
 CN 3H-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-1,3,3-trimethyl-, tetraethylborate(1-) (XCI) (CA INDEX NAME)
 CM 1

CRI 61575-00-0
 CXP C33 BE3 M2



CM 2
 CRY 44772-83-6
 CXP C3 BE4 B
 CCI CCS



BN 060522-81-1 CAPLIC
 CN 3H-Indolium, 2-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)methyl]-

LA ANDER 62 OF 74 CAPULE OMYRIGHT 2006 ACS on STN (Continued)

1,3,3-trimethyl-, tetramethylborate (1-) (AC1) (CA INDEX NAME)

CM 1

CN 61575-70-0
CQ C25 B27 M2



CM 2

CN 37868-04-5
CQ C4 B12 B
CQ C12



IT 8009-62-4 PREP (Synthetic preparation); PREP (Preparation)

CN 37868-04-5 CAPULE
CN 2E-indole, 2-[(1,3-dihydro-1,3,2-trimethyl-2H-indol-2-ylidene)methyl]-2,2-dihydro-1,3,2-tetramethyl-, (CA INDEX NAME)



LA ANDER 63 OF 74 CAPULE OMYRIGHT 2006 ACS on STN (Continued)

CN 61575-70-0
CQ C25 B27 M2



LA ANDER 63 OF 74 CAPULE OMYRIGHT 2006 ACS on STN

AN 1961-150326 CAPULE
IN 1961-150326

TI Dyeing systems with tetra(hydroxyethyl)borate salts

IN Holmes, Brian M.; Doherty, Rex J.; Asch, Steven M.
PA Minnesota Mining and Manufacturing Co., USA

US 6,469,899

COIN: USXMM

PT Patent

LA English

PAINT

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6469897	A	1998-06-27	US 1997-034364	1997-06-03
CA 2306067	A1	1998-06-17	CA 1995-05355	1995-05-03
JP 6230611	A	1998-06-05	JP 1995-20611	1995-06-04
DE 4418049	B3	1998-06-05	DE 1995-00641	1995-06-04
DE 4409461	A	1998-06-05	DE 1995-00641	1995-06-04
EP 1060172	A2	1998-06-05	EP 1995-00641	1995-06-04
EP 1060172	A	1998-06-05	EP 1995-00641	1995-06-04
EP 1060172	B1	1998-06-05	EP 1995-00641	1995-06-04

CA 2306067	CA	1998-06-17	CA 1995-05355	1995-06-03
JP 6230611	A	1998-06-05	JP 1995-20611	1995-06-04
JP 6406364	B	1998-06-19	JP 1995-00641	1995-06-04

PRAL 62: MARKET 1910326

AB A photoimaging system comprises a dispersion of a tetra(hydroxyethyl)borate and a dye. Thus, a polyester support was coated with an emulsion containing

(1) a dispersion of Indoline Red perfluorooctyl ethyl (fluoropolymer) sulfonate

(2) a dispersion of a diacylfluorosulfonate

(3) a dispersion of a diacylfluorosulfonate

(4) a dispersion of a diacylfluorosulfonate

(5) a dispersion of a diacylfluorosulfonate

(6) a dispersion of a diacylfluorosulfonate

(7) a dispersion of a diacylfluorosulfonate

(8) a dispersion of a diacylfluorosulfonate

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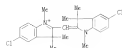
(88) a dispersion of a diacylfluorosulfonate

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(90) a dispersion of a diacylfluorosulfonate

LA ANSWER 65 OF 74 CAPLIS OMPYRIGHT 2006 ACS on STN (Continued)

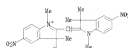
CM 1

CIN 77118-29-6
COP C25 I25 C12 N3

CM 2

CIN 14814-70-6
COP B F4
CC1 CCSBN 77118-29-6 CAPLIS
CN 2H-Indolium, 2-[[1,3-dihydro-1,3,5-trimethyl-5-nitro-2H-indol-2-ylidene(methyl)]-1,3,5-trimethyl-5-nitro-, tetrafluoroborate(1-)] (1:1) (CA INDEX NAME)

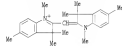
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CIN 77118-27-6
COP C25 I25 N4 O4

CM 2

CIN 14814-70-6
COP B F4
CC1 CCS

LA ANSWER 66 OF 74 CAPLIS OMPYRIGHT 2006 ACS on STN (Continued)



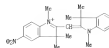
CM 2

CIN 14814-70-6
COP B F4
CC1 CCS

LA ANSWER 66 OF 74 CAPLIS OMPYRIGHT 2006 ACS on STN (Continued)

BN 77118-29-6 CAPLIS
CN 2H-Indolium, 2-[[1,3-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene(methyl)]-1,3,5-trimethyl-5-nitro-, tetrafluoroborate(1-)] (1:1) (CA INDEX NAME)

CM 1

CIN 77118-29-7
COP C25 I25 N4 O4

CM 2

CIN 14814-70-6
COP B F4
CC1 CCSBN 77172-25-2 CAPLIS
CN 2H-Indolium, 2-[[1,3-dihydro-1,3,5,6-tetramethyl-2H-indol-2-ylidene(methyl)]-1,3,5,6-tetramethyl-, tetrafluoroborate(1-)] (1:1) (CA INDEX NAME)

CM 1

CIN 77172-24-1
COP C25 I25 N4

LA ANSWER 66 OF 74 CAPLIS OMPYRIGHT 2006 ACS on STN

BN 1978-64508 CAPLIS

BN 89-6468

COP 78614, 7864a

T1 Radicals from solmethine dyes. IV. Oxidation radicals from

solmethine dyes with indole and groups

AU Oellling, H.; Betti, F.

CI Fachber. Chem., Univ. Marburg, Marburg, Fed. Rep. Ger.

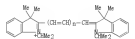
DO Organic Magnetic Resonance (1977), 9(8), 665-6

CINEN, 680828; ISSN 0008-6821

DI Journal

LA Radicals

G1



AB Oxidation radicals were obtained by electrolytic oxidation of the polymethine dyes I (n = 6) and II (n = 11). Their ESR spectra confirmed the expected structure of the radicals.

IT 68986-01-2

RL FMO Properties

RL ESR of

BN 68986-01-2 CAPLIS

CN 2H-Indolium, 2-[[1,3-dihydro-5,3-dimethyl-1-[(1-methylethyl)-2H-indol-2-ylidene(methyl)]-5,3-dimethyl-1-(1-methylethyl)-], radical ion(1+)] (BC1) (CA INDEX NAME)



IT 54478-54-7

RL RCT (Reactant); RCT (Reactant or reagent)

electrochemical oxidation of; ESR study of

BN 54478-54-7 CAPLIS

CN 2H-Indolium, 2-[[1,3-dihydro-5,3-dimethyl-1-[(1-methylethyl)-2H-indol-2-ylidene(methyl)]-5,3-dimethyl-1-(1-methylethyl)-], tetrafluoroborate(1-)] (1:1) (CA INDEX NAME)

CM 1

CIN 54478-55-6
COP C27 I25 N4

LA ANKER 66 09 74 CAPLIC OMFKIGHT 2006 ACS on STN (Continued)



CM 2
CIN 14514-70-6
CIP B F4
CCL CCS

LA ANKER 67 09 74 CAPLIC OMFKIGHT 2006 ACS on STN
AN 1207 56224 CAPLIC
IN 9676724

QESP 96 9652a,966a
T1 Carbon-13 NMR spectra of di- and trimuclear polymethine cyanine dyes
AU Grabe, W
C1 Fachbereich Chem, Univ Marburg, Marburg, Fed. Rep. Ger.
SD Tetrahedron (1996), 32(18), 1953-9
CODEN TETRAD; ISSN 0040-4039
JF Journal
LA German
G1 Per diagram(s), see printed CA Issue
AS 13C NMR chemical shifts are reported and assigned for the title compds. I (X = Me), II (X = Me, Y = S, Z = Et, a = 0.2), III [8057-25-4], and III' [2841-85-1]. The influence of the heterocyclic groups and the chain length on the chemical shifts of the methine C atoms and on the corresponding 13C-13C coupling constants was studied. 13C chemical shifts of indolenine deriva. correlate with calculated π -electron densities. The combined application of 1D and 2D NMR spectroscopy is a useful method for detecting steric hindrance in polymethine
IT 6157-21-1
R. FFE (Symmetries)
RN 6157-21-1 CAPLIC
ON 5H-Indolium, 2-[(1,3-dihydro-1,5,3-trimethyl-2H-indol-2-ylidene)methyl]-1,5,3-trimethyl-, tetrafluoroborate (1-) (1-1) (CA 30628 N000)

CM 1
CIN 6157-20-0
CIP C23 E27 N2



CM 2
CIN 14514-70-6
CIP B F4
CCL CCS



LA ANKER 68 09 74 CAPLIC OMFKIGHT 2006 ACS on STN

AN 1207 62196 CAPLIC
IN 9677096
QESP 96 9652a,966a
T1 Bis(1,1,3-trimethylindolen-2-yl)concentidium tetrafluoroborate, [C20H27N3]2+ BF4-
AU Altmann, Rudolf; Dehnbrenner, Tony
C1 Fachbereich Chem, Univ Marburg, Marburg, Fed. Rep. Ger
SD Crystal Structure Communications (1996), 6(2), 211-14
CODEN CSCOMJ; ISSN 0890-1742
JF Journal
LA English
G1

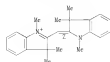


AS The structure of the cation I of the title compound was determined by x-ray diffraction. The structure was solved by the MULTAN program and refined to an R of 6.0%. The crystals are monoclinic, space group P21/a, with a = 12.01(4), b = 3.30(1), c = 11.12(1) Å, and β = 97.54(1)°. d (calculated) = 1.064 for $Z = 4$. Both indolenine rings are nearly planar but are twisted by 12° and 27° with respect to the central plane [C(11)-C(12)-C(13)]. The positive cations form dimers in the [ab] plane, direction by short contacts of 4.69 and 5.41 Å. The structure is compared to other polymethinecyanine structures

IT 6157-20-0
R. FFE (Symmetries)
RN 6157-20-0 CAPLIC
ON 5H-Indolium, 2-[(2-[(1,3-dihydro-1,5,3-trimethyl-2H-indol-2-ylidene)methyl]-1,5,3-trimethyl-, tetrafluoroborate (1-) (N003) (CA 30628 N000)

CM 1
CIN 6157-19-9
CIP C23 E27 N2

Double bond geometry as shown:



CM 2
CIN 14514-70-6

LA ANKER 68 09 74 CAPLIC OMFKIGHT 2006 ACS on STN (Continued)

CIP B F4
CCL CCS



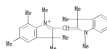
LA ANKER 34 09 34 CAPLIC OBERKREITZ 3006 ACS on STN
 AN (21) 2198 CAPLIC
 DE 25 2198
 QRP 25 2468-1, 2474-6
 IT Conjugated double bonds XY Constitution of indoline yellow
 AU Bohn, Richard, Winterstein, Alfred, Hansen, Georg
 30 Berichte der Deutschen Chemischen Gesellschaft [Abteilung] B Abhandlungen
 (1901), 633, 3126-94
 (1901) 633, 3126-94
 (1901) 633, 3126-94

DE Journal
 LA Dissertation
 Q1 For Diagram(s), see printed CA issue.
 AS cf. C. A. 26, 1515. As a rule, replacement of methine groups, (CH⁺, in a
 polymer chain by N⁺ has practically no influence on the optical
 transitions from this rule occur in the initial members of homologous
 series and seem always to lie in the direction of stronger absorption by
 the N-containing compound. An apparent exception was afforded by the violet
 indoline (cf. II) (due to its position), obtained from the methylene base
 (II) and salts or esters of NMOH, and the greenish yellow compound (III)
 (called indoline yellow in the present paper), obtained according to
 Ger. pat. 459,456 from I and NMOH and which, by analysis, was assigned the
 structure IV. It has been found, however, that in the combination of
 bases of type II with NMOH in the presence of AcOH not only ION but also I
 mol. HCN is split off. The yellow dye is therefore given the structure
 III, which makes it a lower vinylic homolog of I and most satisfactorily
 explains its color. Attempts to obtain III by condensing
 1,3,5,7-tetramethylindolinium salts with 1,3,5-trimethylindoline (V)
 were unsuccessful. If, however, II in cold AcOH is slowly treated with 1
 mol. NMOH in a little water and then recrystallized with HClO₄, there sepa. an
 orange perchlorate (VI) which with II in AcOH yields II but also decomps.
 when heated in AcOH into V, HClO₄ and HCN. In the absence of II this
 decomposition is very smooth and affords a better method of preparing V than does
 oxidation of II with KMnO₄. If the formula III is correct, the
 condensation of II with the 1,3,5,7-penta-Me homolog (VII) of VI on the
 one hand, and of the 1,3,5,7-penta-Me homolog of II with VI on the other
 hand, should give 2 different di-Me derive., but as a matter of fact the
 same dye (VIII) was obtained in both cases. This can be explained on the
 basis of Kuhn's theory that in dyes of this type the action is not directed
 with the one or the other N atom but with both simultaneously, giving rise
 to a system of fixed heteropolar union, as represented by formula IX.
 The derivation of an electronic formula, in which this equivalence of the
 two N atoms is brought out, is briefly discussed.
 1,3,5-trimethyl-2-formamethylindolinium 1-perchlorate (VI) (OHN yield), m.
 207° (OHN block, corrected) with decomposition. Perchlorate of III, m.
 207° (OHN block, corrected) with decomposition. Pres. III, m. 107°.
 VII, m. 210° (decomposition). 5,7-Di-Me derivative (VIII) of III, isolated
 as the perchlorate, m.p. m. 204° (decomposition).
 IT 6110-V0-6, Fluorindolinium,
 1,3,5-trimethyl-2-(1,3,5-trimethyl-2(2)-indylideneethyl)-
 deriva.
 RN 6110-V0-6 CAPLIC
 CN 6110-V0-6 CAPLIC
 DE Indolin, 2-[(1,3,5-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)ethyl]-
 1,3,5-trimethyl- (CA 2008 2008)

LA ANKER 34 09 34 CAPLIC OBERKREITZ 3006 ACS on STN (Continued)



IT 85009-81-3P, Pseudoindolinium,
 1,3,5,7-pentamethyl-2-(1,3,5-trimethyl-2(2)-indylideneethyl)-
 perchlorate
 RI (RMP) (Preparation)
 RN 85009-81-3 CAPLIC
 CN Indolin, 2-[(1,3,5-dihydro-1,3,5-trimethyl-2H-indol-2-ylidene)ethyl]-
 1,3,5,7-pentamethyl- perchlorate (I 1) (CA INDEX NAME)
 CN 1
 CN 85009-81-3
 CN 85009-81-3
 CN 85009-81-3



CN 2
 CN 1470-73-0
 CN 1470-73-0



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FILE 'REGISTRY' ENTERED AT 09:46:25 ON 17 DEC 2008

L1 STRUCTURE UPLOADED

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L2 3 SEA SSS SAM L1

L3 119 SEA SSS FUL L1

FILE 'CAPLUS' ENTERED AT 09:47:13 ON 17 DEC 2008

L4 74 SEA ABB-ON PLU-ON L3

D QUE L4 STAT

D I-74 BIB ABS HITSTR

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

404.74

583.31

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

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